

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 03-035218

(43)Date of publication of application : 15.02.1991

(51)Int.Cl.

G02F 1/133

G02F 1/133

G09G 3/36

(21)Application number : 01-170124

(71)Applicant : MATSUSHITA ELECTRIC IND CO LTD

(22)Date of filing : 30.06.1989

(72)Inventor : MINAMINO YUTAKA

NAGATA SEIICHI

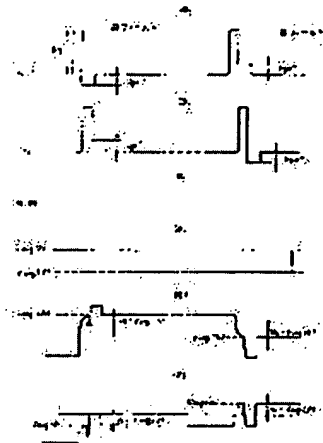
TAKEDA ETSUO

(54) METHOD FOR DRIVING LIQUID CRYSTAL DISPLAY DEVICE

(57)Abstract:

PURPOSE: To improve image quality and reliability by impressing a modulating signal in addition to a scanning signal to scanning electrodes of TFTs and changing the magnitude of the modulating signal by the even number and odd number scanning electrodes and further reversing this relation in odd fields and even fields.

CONSTITUTION: The modulating signal V_{ge} in addition to the scanning signal voltage V_g for turning on the TFTs are impressed to scanning signal wirings. This V_{ge} varies in the directions and amplitudes of the respective modulations in the even number scanning electrodes and the odd number scanning electrodes with $V_g=0$ as a center. This relation is reversed in the odd fields and the even fields. The averages of the voltages of the source electrodes and picture element electrodes to transmit the image signal V_{sig} and a counter electrode are equaled in this way and the impression of the DC voltage as time average in any part within the liquid crystal panel is obviated and, therefore, the liquid crystal display panel having the high reliability and high image quality which is free from the deterioration in the display quality and the seizure of the patterns is obtained.



LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]